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ABSTRACT

This document concerns the retention and graduation of students at the City University of New York. Major attention is devoted to those who entered the senior and community colleges of CUNY as first-time freshmen in September 1970. This group was the first to enroll in the university under the open admissions policy. This report includes the group status (enrolled or not, graduate or not) after eight semesters, and data on retention and graduation. First, findings are presented for men and women and by students' area of residence, as well as for high school average categories. Second, data on freshman class entering CUNY each fall since 1970 is used to compare the retention of the first open admission students with subsequent enrollees. Last, some comparative statistics on graduation are presented including: data for a CUNY sample prior to open admission, data from a national sample of college students, and data from a selected group of two-year and four-year colleges.
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STUDENT RETENTION AND GRADUATION AT THE CITY UNIVERSITY OF NEW YORK: FALL 1970 TO SPRING 1974

by

Barry Kaufman and Rena Botwinick

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SUMMARY OF FINDINGS

The data covering four years of enrollment of students who entered The City University of New York in September, 1970 (the first open admissions class) showed:

--Of those entering the senior colleges, 21.4% received Bachelor's degrees and another 35.2% were still enrolled in the Spring 1974 semester (Chart A).

--Of those entering the community colleges, 23.1% received Associate's degrees, 2.8% received Bachelor's degrees, and 22.2% were enrolled at a community college or a senior college in the Spring 1974 semester (Chart B).

--Graduation and retention were related to students' high school average: Students with higher averages were more likely to have graduated or still to be enrolled than students with lower averages (Figures 1 and 2, and Table 1).

--Graduation percentages varied among the colleges of CUNY: Brooklyn, Lehman, and Queens among the senior colleges and Manhattan, Kingsborough, and New York City among the community colleges had the highest graduation rates (Figures 1 and 2, and Tables 2 to 6).

--At both the senior colleges and community colleges, women were more likely to have been graduated than men (Figures 1 and 2, and Tables 7,8,and 9).

--Graduation-retention rates were slightly higher for women than men at senior colleges and substantially higher at community colleges (Tables 7 and 8).

--Students from residential areas in New York City with predominantly white population had higher graduation rates and graduation-retention rates than students from other residential areas (Table 10).

--Graduation and retention were positively associated with the median family income of the area in which the students resided (Table 11).

Comparisons among four CUNY entering cohorts (1970, 1971, 1972, and 1973 freshmen) after two semesters, four semesters, and six semesters, showed the following:

--At the senior colleges, two semester retention rates were similar for each cohort; the four semester and six semester retention rates and return rates (students who left the University and then returned) declined with each successive cohort since 1970 (Tables 13, 15, and 17).

--At the community colleges, two semester retention rates were lower for the 1970 cohort. The four semester and six semester graduation-retention rates and graduation rates were similar for each cohort; return rates were highest for the 1970 cohort (Tables 14, 16, and 18).

Data on graduation rates at CUNY and other colleges and universities showed that:

--Four year graduation rates for students who entered Brooklyn, City, Hunter, and Queens Colleges of CUNY in 1970 were lower than for students who entered these colleges in 1960; this was the case even among those 1970 freshmen with high school averages of 85 and above (Table 23).

--On-time graduation rates (two years for the Associate's and four years for the Bachelor's degrees) among the 1970 CUNY freshmen were lower than for students at a select group of two and four year institutions (Tables 24 and 25).

--Compared to a national sample of students from four year public colleges, the graduation rates for the 1970 CUNY senior college freshmen were lower; however, retention rates were higher for CUNY students (Table 26).

--Compared to a national sample of students from two year public colleges, graduation rates and retention rates for the 1970 CUNY community college freshmen were higher (Table 27).

INTRODUCTION

This report concerns the retention and graduation of students at the City University of New York. Major attention is devoted to those who entered the senior and community colleges of CUNY as first-time freshmen in September, 1970. Earlier reports on this cohort, the first to enroll in the University under the open admissions policy, described their attendance after four semesters (Lavin and Silberstein, 1974) and seven semesters (Lavin, 1974). It is now possible to report on their status (enrolled or not, graduated or not) after eight semesters, (i.e., four years), Fall 1970 to Spring 1974. This time span is especially significant for students in senior colleges since it is often identified as the period traditionally required for them to earn the Bachelor's degree.

Aside from updating information previously published, the report also includes some new and additional data on retention and graduation. First, findings are presented for men and women and by students' area of residence, as well as for high school average categories.[1] Second, the availability of data on each CUNY fall entering freshman class since 1970 makes it possible to compare the retention of the first open admissions students with subsequent enrollees.[2] These comparisons are provided for six semesters (1970 and 1971 freshmen), four semesters (1970, 1971, and 1972 freshmen), and two semesters (1970, 1971, 1972, and 1973 freshmen). Last, we have included some comparative statisti

on graduation, as follows: data for a CUNY sample prior to open admissions, data from a national sample of college students, data from a select group of two year and four year colleges.

In interpreting and utilizing the data contained herein, it is suggested that the reader be guided by the following definitions, qualifications and limitations:

(1) Validation procedures on data for the 1970 entering cohort have not been completed beyond four semesters; prior experience with the data suggests graduation-retention figures will not be significantly different when these procedures are completed.

(2) The term "CUNY cohort" refers to all students who entered as first-time, matriculated, day session freshmen. It includes regular admissions students, special program students (e.g., SEEK), and students for whom information on high school average was not available (those with high school equivalency diplomas, students from outside New York City, and those for whom the data were missing).[3]

(3) The graduation-retention rate refers to students who were graduated by the end of the semester shown or enrolled for that semester. The rate does not differentiate between those present all semesters (including graduates) from those who left and subsequently returned (including graduates).

(4) As in previous reports, the data have been tabulated by college of original enrollment; intra-CUNY transfers (e.g., from community colleges to senior colleges) are thereby counted as retained or graduated from their first semester college.

(5) Students who left the University without having graduated are counted as attrited, even though they may have transferred to and been graduated from a college outside the CUNY system. Information is not available on the number of students in this category nor on their current status.

(6) The graduation and retention figures in this report do not reflect the total numbers of graduates from and enrollees at CUNY in the semesters shown. Excluded from these data are: first-time freshmen in the Spring or Summer semesters; evening and part-time students; and students transferring to CUNY from other institutions.

(7) The data of this report are descriptive and allow for little in the way of causal explanations. Such analyses would require additional data on program and staff characteristics and on student motives, expectations, and attitudes.

I. GRADUATION AND RETENTION: 1970 FRESHMEN

Summary data for four years (i.e., eight semesters) of enrollment are presented in Charts A (senior college) and B (community college), and Table 1.[4]

By the end of eight semesters (Spring 1974), 21.4% of the Fall 1970 senior college freshmen received Bachelor's degrees. Another 35.2% were enrolled but did not graduate in the eighth semester; most of these students attended CUNY without interruption (Chart A, Box D).

Of students who originally enrolled at community colleges in the Fall 1970, 23.1% received Associate's degrees by the end of eight semesters; 2.8% earned Bachelor's degrees from CUNY senior colleges (Chart B, Boxes C and J), 7.7% were still enrolled at a community college in the eighth semester (Box M), and 14.5% were attending a senior college (Boxes D and K). It is also possible to compare students who transferred to senior colleges with the community college degree (Box B) and without it (Box I); the former were more likely to have graduated from a senior college or still to be enrolled there in the eighth semester.

While the graduation rate was slightly higher for the community college cohort, the combined graduation-retention rate

was substantially greater for the senior college cohort (56.8% graduated-retained at senior colleges compared to 38.6% at community colleges [Table 1]). The rate of return after withdrawal (students who attended, left, and then returned by the eighth semester or graduated) was slightly higher at the senior than community colleges.

Return rates have been a topic of interest in the University because they are thought to be indicative of the "stopout phenomenon."[5] This attendance pattern is believed to be prevalent at CUNY. Data from one study (Max, 1968) do suggest this was so for the students prior to 1970: of all students who entered Brooklyn, City, Hunter, and Queens Colleges in 1960, 47.8% graduated after four years, 70.6% graduated after seven years.

However, information on the characteristics of students who entered the University since 1970, and experience with these students, is still limited. Nor is it certain that we can project the attendance pattern of the earlier students to the newer ones. For these reasons, it is difficult to say how much higher the graduation rate will rise after eight semesters.[6] Future reports will examine this issue in greater detail.

A. High School Average

The data in Table 1 show a strong and positive relationship between high school average and graduation and retention; the higher the high school average, the higher the graduation-retention rate and the graduation rate.[7] (Rates of return to CUNY are also positively associated with high school average, but the relationship is not as strong.) These findings hold for senior colleges and community colleges, and are consistent with those in the four semester and seven semester reports (Lavin and Silberstein, 1974; Lavin, 1974).

Differences between high school average categories (especially between those with 80 and above averages and those with averages below 70) tend to be more pronounced at senior colleges. (31.4% of senior college students with high school averages of 80 and above graduated, but only 2.9% of those with averages below 70 did so; corresponding figures for community colleges were 38.7% and 15.4%.) It should be noted that (a) senior colleges were allocated a smaller proportion of students with below 70 high school averages than were the community colleges and (b) the senior college data refer to on-time graduation only, while the community college data include two years beyond the on-time graduation period, allowing more students with lower high school averages to be graduated.

Overall data on graduation and retention for the colleges of CUNY are presented in Table 2. Among the senior colleges, the eight semester graduation-retention rate at Queens and Brooklyn was well above the senior college average. Brooklyn, Lehman, and Queens Colleges had the highest graduation rates; John Jay College had the lowest graduation rate.

Among the community colleges, Manhattan CC and Kingsborough CC had graduation-retention rates above the community college average; Manhattan, Kingsborough, and New York City Community Colleges had the highest graduation rates.

(The data in Table 2 were tabulated for each of the high school average categories and are presented in Tables 3 to 6.)

B. Male and Female Students

Of the students who originally enrolled at CUNY in September 1970, women were much more likely to have been graduated than men. As can be seen from the data in Tables 7 and 8, 29.3% of the senior college women were graduated compared to 15.6% of the men, and 29.8% of the community college women were graduated compared to 18.2% of the men.[8] Women were

also more likely to have been graduated from a senior college after transferring from a community college.

When the data in Tables 7 and 8 are examined by high school average categories, it is seen that the discrepancy between female and male graduates becomes greater as high school average increases. Among senior college students with below 70 high school averages, 3.8% of the females and 2.6% of the males graduated; of those with high school averages of 80 and above, 39.0% of the females but only 23.8% of males graduated. A similar pattern is found at the community colleges.

Baruch College was the only institution of CUNY in which the graduation rates of men and women were virtually the same; at all the others, the graduation rate was higher for women (Table 9).

The graduation-retention rate at the senior colleges was slightly higher for women (only in the 80 and above high school average category did the rate for men surpass that of women); the graduation-retention rate at community colleges was substantially higher for women than men.

These findings are similar to those reported by others (Astin, 1972; El-Khawas and Pisconti, 1974, the latter indicating that, in time, the gap between the proportion of women and men graduates either disappears or is reduced. Whether this will occur at CUNY will not be known for some time).

C. Residential Area Characteristics

The University data file on fall entering freshmen does not contain information on either the race-ethnicity or family income of students. Using data from the 1970 United States Census,[9] it was possible to classify students' areas of residence (ZIP code) along these dimensions. This could only be done for students residing in New York City, and refers to their residence at the time of application to CUNY.

Race-Ethnicity: Students from areas with predominantly white population were most likely to have been graduated by the end of eight semesters (26.5% from senior colleges and 27.4% from community colleges); they also had the highest graduation-retention rates. Students from areas with predominantly black population were least likely to have been graduated (8.2% from senior colleges and 18.6% from community colleges). Students

from areas with Puerto Rican population concentration had the lowest graduation-retention rates and return rates (Table 10).

Median Family Income: Graduation and retention were related to median family income of students' residential area. Those from areas with middle ($8,000-$11,999) and higher ($12,000 +) median family income were more likely to have been graduated and to have higher graduation-retention rates than those from areas of low (below $8,000) median family income (Table 11).

Race-Ethnicity and Median Family Income Combined: Among senior college enrollees, the median family income of students' residential areas was positively associated with graduation and retention whether or not the students came from predominantly white or minority neighborhoods. This was also found among community college enrollees from predominantly white neighborhoods. However, among community college enrollees from minority areas, there was no association between median family income and graduation and retention (Table 12).

One of the objectives of open admissions was to increase the opportunity for students from areas of low income

and minority population to attend CUNY. Data are available which indicate that the admission of students from these areas has increased (Kramer, Kaufman, and Podell, 1974). With regard to the graduation and retention of low income and/or minority students, baseline data for students prior to 1970 do not exist and the University does not have information on students' family income or race-ethnicity which could be compared with national data (cf. Astin, 1972). Still, three findings emerge from the data of Tables 10, 11, and 12 which bear, albeit indirectly, on the issue:

(1) Community college students from areas of low median family income and minority concentration were closer to the average graduation and retention rates for CUNY community colleges than were students from the same areas in CUNY senior colleges.

(2) Differences in the graduation-retention and graduation rates between students from low median family income and minority concentration areas and those from other areas were greater in the senior than community colleges.

(3) However, the graduation-retention rate among senior college students from areas of low median family

income and minority concentration surpasses the highest rate in community colleges.

II. GRADUATION AND RETENTION: 1970, 1971, 1972, 1973 FRESHMEN

How has the graduation and retention experience of entering freshmen changed since Fall 1970?

A. After Two Semesters

Retention data for two semesters are shown in Table 13 for senior colleges and Table 14 for community colleges.

The senior college cohorts show little difference in their two semester retention rates (e.g., 88.8% of the 1970 freshmen, compared to 86.4% of the 1973 freshmen enrolled for their second semester). Among the community college cohorts, the two semester retention of the 1970 freshmen was slightly lower than that of the others.

B. After Four Semesters

Among the senior college cohorts, the four semester retention rate and return rate was highest for the 1970 freshmen. These rates were slightly lower for

the 1971 freshmen and declined, again, for the 1972 freshmen (Table 15).

With one exception, the four semester community college data were similar for all cohorts. The exception was the return rates, which showed a successive decline for each cohort since 1970 (Table 16).

C. After Six Semesters

Retention rates and return rates were higher for the 1970 than 1971 senior college cohort (Table 17). At the community college level the graduation-retention rate and the percent graduated were the same for the 1970 and 1971 cohorts; return rates were higher for the 1970 cohort (Table 18).

(Additional data by sex and residential area characteristics are presented in Tables 19 and 20 and Tables 21 and 22, respectively.)

III. COMPARATIVE DATA ON GRADUATION

Comparing graduation rates at different colleges and universities presents a number of problems. Among these are differences in data collection methods (which can involve self reports from students, registrar records, registrar estimates, computerized data files), academic year organization (semester, trimester, and quarterly systems), characteristics of students, admissions policies, program requirements and grading practices, and time periods. These problems affect the data presented in this section.

A. CUNY Graduates: 1960 and 1970 Freshmen[10]

Four year graduation rates of students who entered Brooklyn, City, Hunter, and Queens Colleges in 1960 and 1970 are presented in Table 23.

Of students who entered Brooklyn, City, Hunter, and Queens in the Fall 1960, 47.8% received a Bachelor's degree after four years. By comparison, only 23.0% of Fall 1970 freshmen at these colleges received a Bachelor's degree after four years. Among 1970 freshmen with high school averages of 85 and above (a more appropriate comparison group with 1960), 37.9% earned Bachelor's degrees after four years.

In both periods, Brooklyn College had the highest graduation rate while City College had the lowest (partly due to the 145 credits required for an engineering degree).

B. CUNY Graduates Compared to Graduates at Other Colleges and Universities[11]

Comparative graduation rates for four and two year degrees at CUNY and select institutions are contained in Tables 24 and 25. While these data are not directly comparable, it is apparent that on-time graduation rates at CUNY are low. Even after four years, the percentage of CUNY students completing a two year degree remains low by comparison.

C. CUNY Data Compared to a National Sample

Data from national studies have been considered important since they are assumed to provide the necessary baseline by which the performance of City University students can be compared. Tables 26 and 27 present data for a national sample of students who entered two year and four year public colleges in 1966 and students who entered CUNY in 1970.[12]

Some qualifications in the use of this comparison are required. First, the graduation comparisons are more valid than those for retention. In both studies, graduation refers to all students who graduated after eight semesters. Retention is defined in the national sample as enrollment for the ninth semester; for CUNY students retention is defined as enrollment in the eighth semester. Second, in the lowest high school average category (those with averages of less than 70), the actual numbers of students (10 for senior colleges and 19 for community colleges) in the national sample are too small to be a reliable comparison group for CUNY.

The senior college data (Table 26) show that CUNY graduation rates after four years were lower than those for the national sample after four years. This was the case for each high school average category. However, CUNY graduation-retention rates (received degree or still enrolled) were higher than the national sample.

For community colleges, within each high school average category, the graduation and retention rates for the CUNY students were higher than those for the national sample (Table 27).

CUNY students appear to be taking longer to graduate than they used to and than is the case at other institutions. Hypotheses have been offered to explain this phenomenon (e.g., enrollment in noncredit remedial courses; smaller credit load each semester or non-continuous enrollment, either of which may be due to inadequate academic preparation or to the need for part-time employment because of lower family income); research is needed -- preferably with a longitudinal design -- to test these and other hypotheses.

FOOTNOTES

1. High school average refers to the University's college admissions average (CAA), computed by the University Applications Processing Center from grades in the following academic subjects: English, mathematics, science, foreign languages, social studies. The high school average categories are the same as those in the seven semester report (Lavin, 1974).

2. Data for the 1970 and subsequent entering cohorts are routinely collected from the colleges by the University's Office of University Management Data, which provided us copies of the data tapes.

3. The number of students in the total cohort and for some colleges differ from those in the seven semester report. This reflects further refinements in the data file and/or different data analysis decisions. In particular, the number of "no shows" (students who apparently registered for the first semester but for whom no first semester academic record existed) has been increased from 530 to 617; these additional students were originally coded for Hostos CC, but an additional check failed to validate their enrollment at that college during the first year. Data for Hostos CC students also fail to show continuous enrollment; their first year data were coded for one semester only.

4. Data in Charts A and B may vary slightly from data in Table 1, a result of slightly different categorizations of students.

5. "Stopouts" are the students in the return from withdrawal category. They are differentiated from "dropouts," who rarely return.

6. A conservative estimate might be to take the current graduation-retention rate as the eventual graduation rate. This assumes that most of those currently enrolled will complete their degree requirements while most of those no longer enrolled will not return. An even more cautious approach would consider only those with continuous enrollment as contributing to the eventual graduation rates.

7. This relationship was maintained when controlling for sex and residential area ethnicity and income.

8. When the data were tabulated by race-ethnicity and median family income of residential area the graduation rate of females was always higher than that of males in the same category.

9. Using Census data, tapes of which were made available by the City Planning Commission, applicants' residence (ZIP code) areas were characterized by race-ethnicity and median family income. There are 186 ZIP areas for NYC; only 166 were classified by OPPR. (The twenty omitted areas had relatively small populations [less than 1,000] or were special designations [Kennedy and LaGuardia Airports].) The 166 NYC ZIP areas were classified as follows:

   (a) Those with comparatively high (30% or more of the population) concentration of Puerto Ricans, regardless of the proportion that were white or black: 12 ZIP areas.
   (b) Predominantly black (80% or more of the population): 10 ZIP areas.
   (c) Mostly black (over 50% but under 80%): 11 ZIP areas.
   (d) Mostly white (over 50% but under 80%): 25 ZIP areas.
   (e) Predominantly white (80% or more): 108 ZIP areas.

   The median family income for each area was also computed and categorized as follows:

$ 0 to -$ 5,999:	9 ZIP areas
$ 6,000 to -$ 7,999:	32 ZIP areas
$ 8,000 to -$ 9,999:	27 ZIP areas
$10,000 to -$ 11,999:	54 ZIP areas
$12,000 to -$ 14,999:	32 ZIP areas
$15,000 and over:	12 ZIP areas
	166 ZIP areas

10. Data for the 1960 CUNY freshmen were published in the study by Max (1968). The 1960 data for City College included what is now Baruch College; the Hunter College data included what is now Lehman College.

    The graduation rates for the Fall 1970 freshmen at Baruch and Lehman Colleges were:

	Baruch	Lehman
All Freshmen	12.2%	26.4%
HSA 80% Above	22.5	41 5
HSA 85% Above	35.2	46.7

11. In September, 1974, the OPPR requested graduation and retention data from several two and four year public colleges and universities. Those able to provide this information are included in Tables 24 and 25; none could provide it by high school average categories.

12. The seven semester report (Lavin, 1974) compared CUNY students to a national sample of students at public and private colleges and universities (Astin, 1972). Professor Alexander W. Astin retabulated his 1972 data to include only the students at two and four year public colleges.

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CHART A: EIGHT SEMESTER GRADUATION/RETENTION/ATTRITION OF FALL 1970 SENIOR COLLEGE FRESHMEN

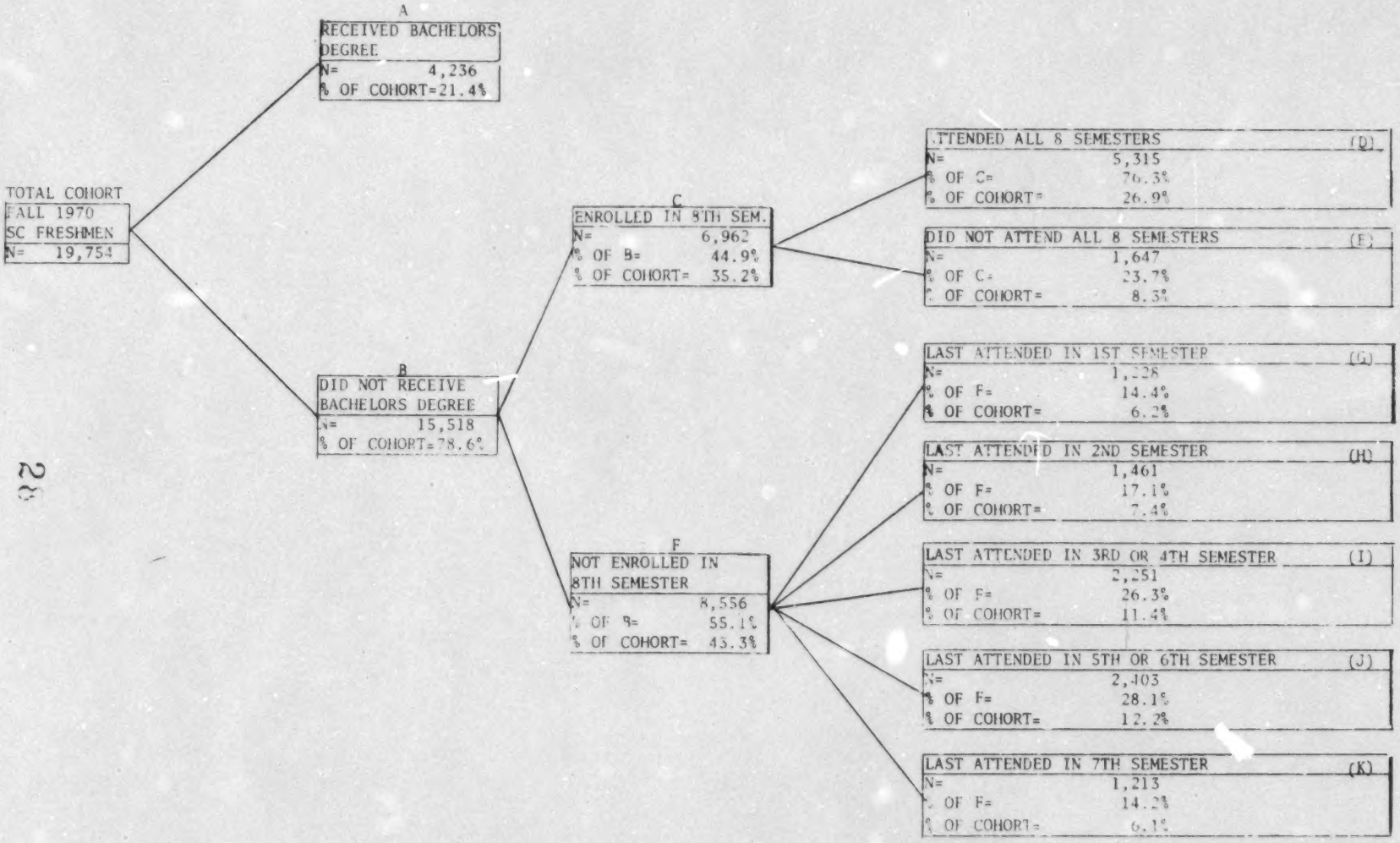

CHART 6: EIGHT SEMESTER GRADUATION/RETENTION/ATTRITION/TRANSFER OF FALL 1970 COMMUNITY COLLEGE FRESHMEN

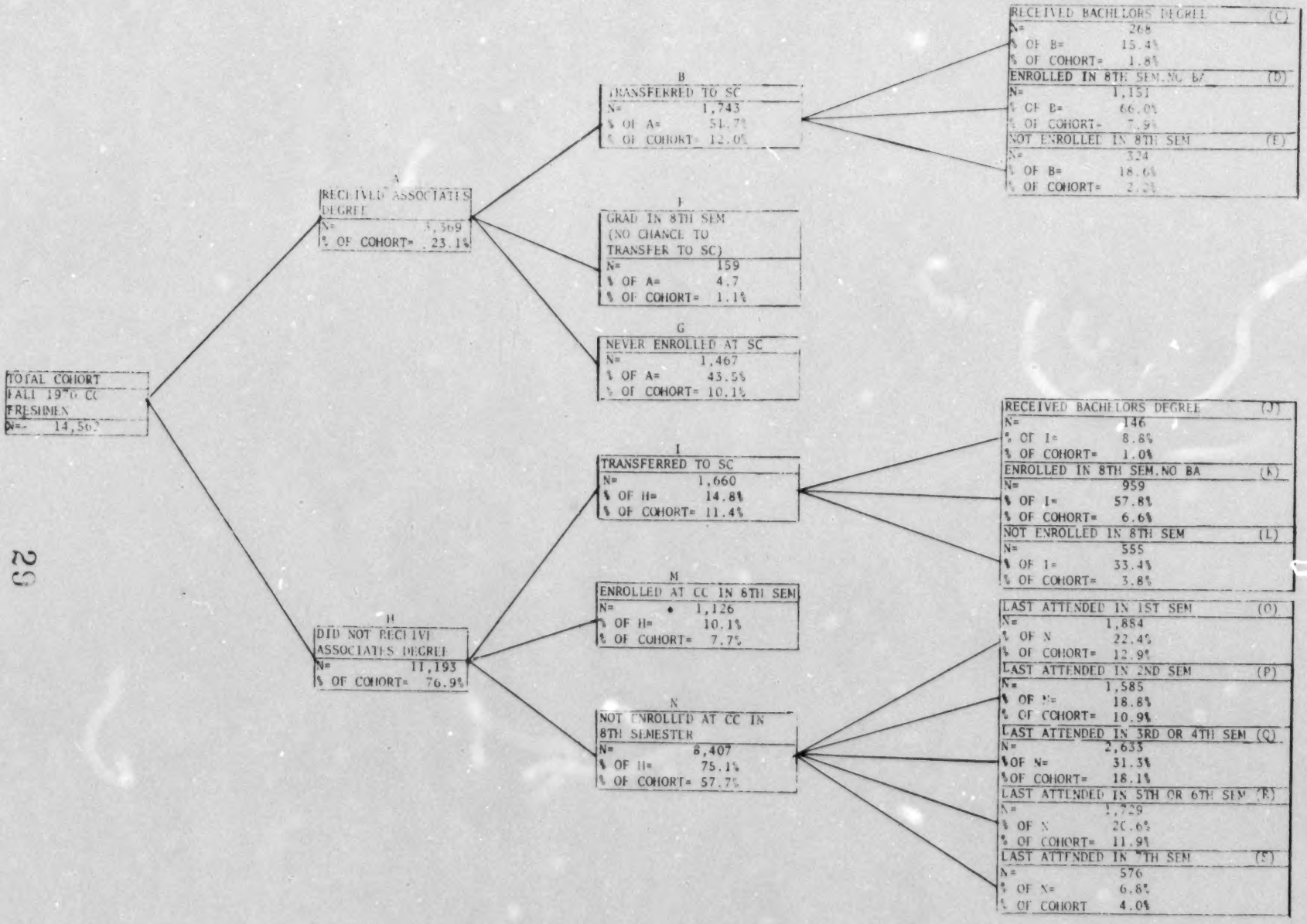

Figure 1: Percent Graduated After Four Years from Senior Colleges by High School Average, Sex, and College, for Fall 1970 CUNY Senior College Freshmen

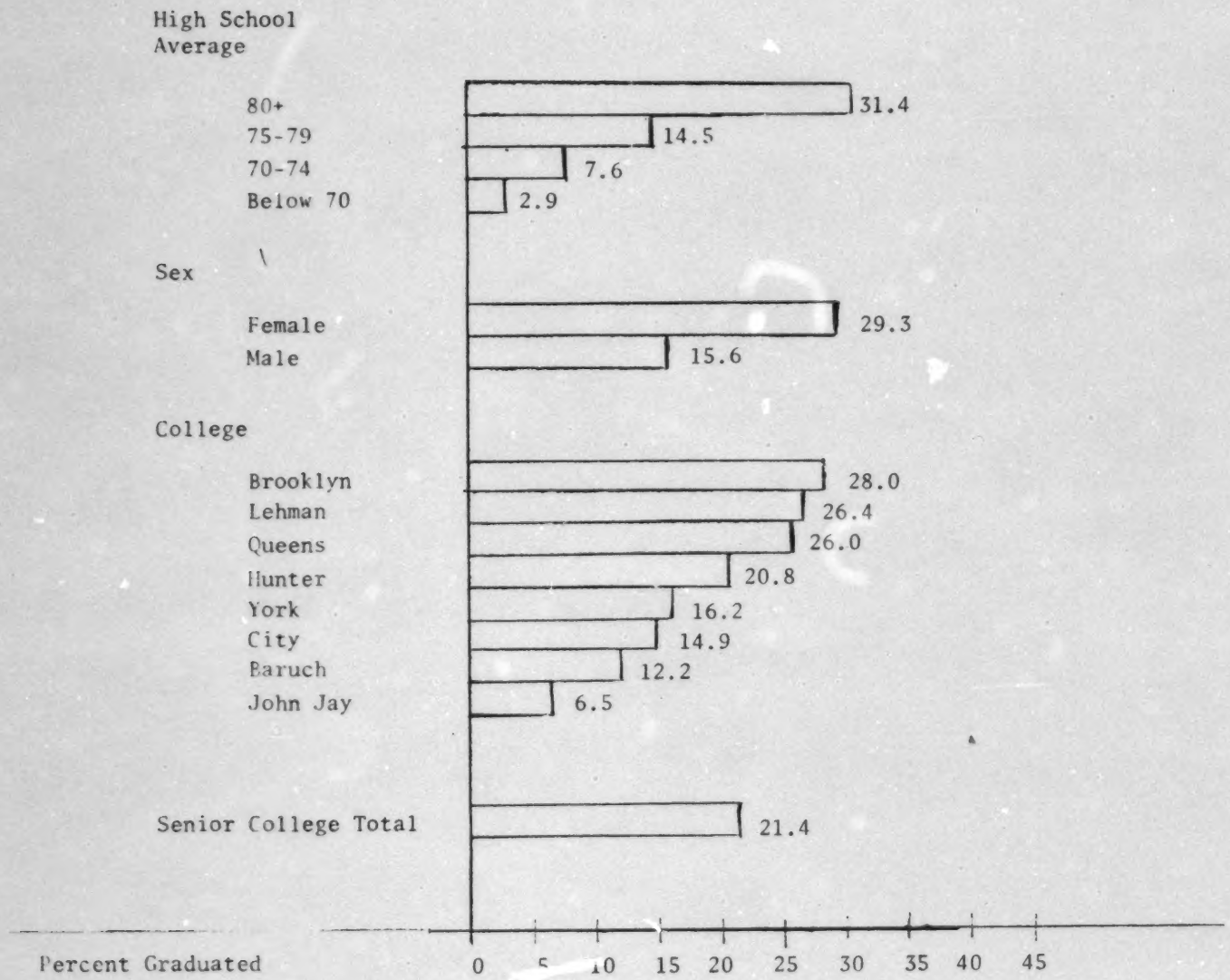

Figure 2: Percent Graduated After Four Years from Community Colleges and from Senior Colleges by High School Average, Sex, and College, for Fall 1970 CUNY Community College Freshmen

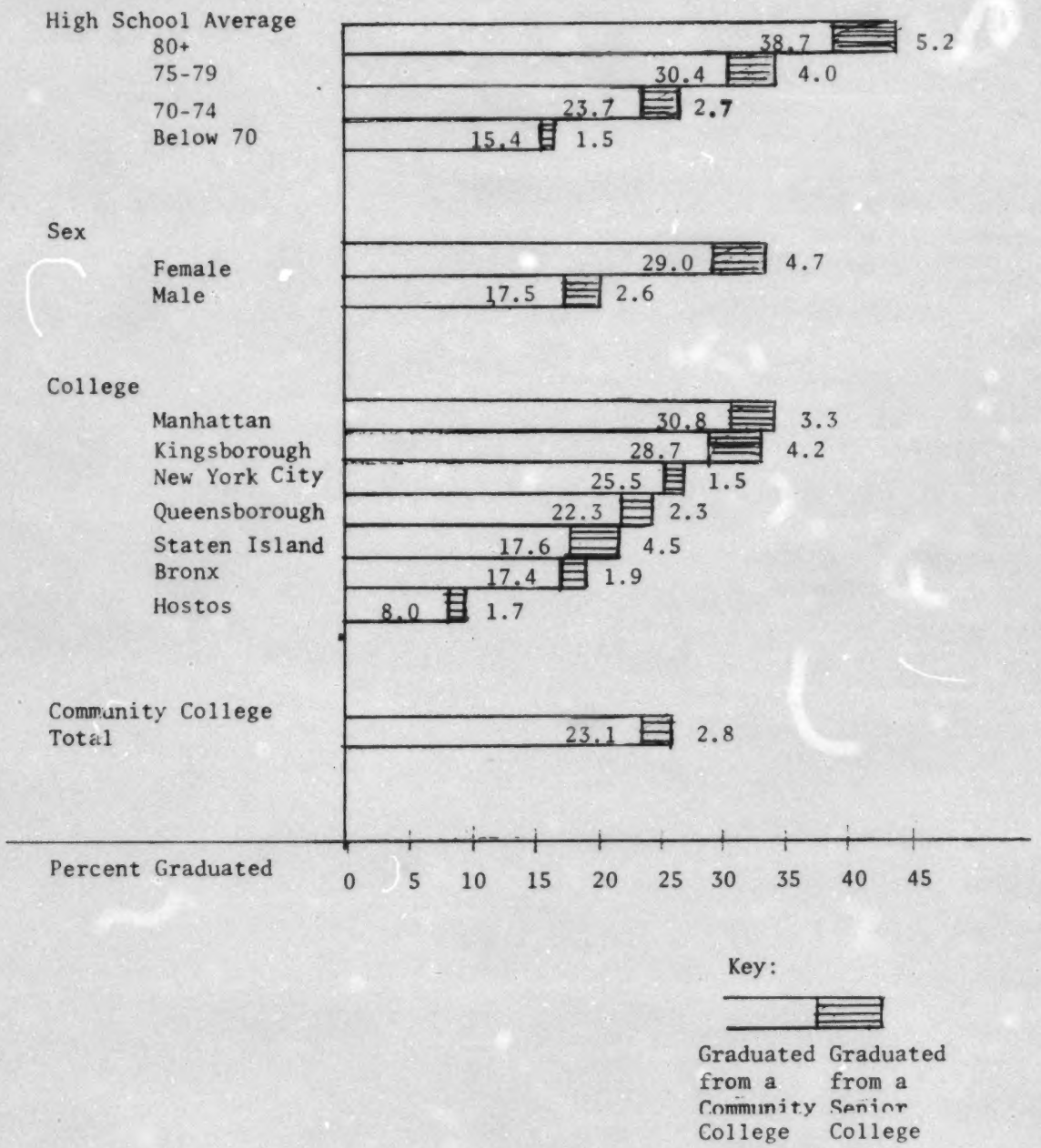

Table 1: Eight Semester Graduation and Retention by High School Average[1], Fall 1970 Freshmen

College of Original Enrollment	Total First Semester Freshmen	Graduated or Enrolled in 8th Semester with:		Graduat'n-Retention Rate	Rate of Return After Withdrawal	Graduated, Community College*		Graduated, Senior College[2]	
		Continuous Attendance	Interrupted Attendance			N	%	N	%
	(a)	(b)	(c)	(b)+(c)/(a)	(c)/(a)-(b)	(d)	(d)/(a)	(e)	(e)/(a)
SENIOR									
H.S. Average									
80+	10,315	6,084	841	67.1	19.9	28	0.3	3,244	31.4
75-79	4,454	1,850	439	51.4	16.9	24	0.5	644	14.5
70-74	2,504	787	266	42.0	15.5	9	0.4	191	7.6
Below 70	1,664	415	185	36.1	14.8	6	0.4	48	2.9
Unknown	817	274	86	44.1	15.8	1	0.1	109	13.3
SC TOTAL	19,754	9,410	1,817	56.8	17.6	68	0.3	4,236	21.4
COMMUNITY									
H.S. Average									
80+	1,376	589	120	51.5	15.2	533	38.7	72	5.2
75-79	2,914	1,026	264	44.3	14.0	886	30.4	117	4.0
70-74	4,268	1,276	424	39.8	14.2	1,010	23.7	117	2.7
Below 70	4,253	902	429	31.3	12.8	654	15.4	65	1.5
Unknown	1,751	267	318	33.4	21.4	286	16.3	48	2.7
CC TOTAL	14,562	4,060	1,555	38.6	14.8	3,369	23.1	419	2.9
CUNY TOTAL	34,316	13,470	3,372	49.1	16.2	3,437	10.0	4,655	13.6

*Of students starting at a community college, the number graduating from both a community and senior college was 269. These students are included under both CC and SC graduates.

All other footnotes for this table appear at the end of the report.

Table 2: Eight Semester Graduation and Retention by College, Fall 1970 Freshmen

College of Original Enrollment	Total First Semester Freshmen (a)	Graduated or Enrolled in 8th Semester with: Continuous Attendance (b)	Interrupted Attendance (c)	Graduat'n-Retention Rate (b)+(c)/(a)	Rate of Return After Withdrawal (c)/(a)-(b)	Graduated, Community College * N (d)	% (d)/(a)	Graduated, Senior College [2] N (e)	% (e)/(a
SENIOR									
Baruch	1,537	634	99	47.7	11.0	5	0.3	187	12.2
Brooklyn	4,362	2,350	365	62.2	18.1	12	0.3	1,219	28.0
City	3,093	1,420	348	57.2	20.8	10	0.3	461	14.9
Hunter	3,091	1,364	250	52.2	14.5	11	0.4	644	20.8
John Jay	995	280	90	37.2	12.6	3	0.3	65	6.5
Lehman	2,370	1,042	260	54.9	19.6	7	0.3	625	26.4
Queens	3,458	2,000	298	66.4	20.4	18	0.5	898	26.0
York	848	320	107	50.4	20.3	2	0.2	137	16.2
SC TOTAL	19,754	9,410	1,817	56.8	17.6	68	0.3	4,236	21.4
COMMUNITY									
Manhattan	1,560	515	225	47.4	21.5	480	30.8	51	3.3
Bronx	1,911	476	192	35.0	13.4	332	17.4	37	1.9
Hostos	464	1	123	26.7	26.6	37	8.0	8	1.7
Kingsborough	2,707	909	273	43.7	15.2	776	28.7	114	4.2
New York City	2,450	751	149	36.7	8.8	625	25.5	36	1.5
Queensborough	3,304	910	302	36.7	12.6	737	22.3	76	2.3
Staten Island	2,166	498	291	36.4	17.4	382	17.6	97	4.5
CC TOTAL	14,562	4,060	1,555	38.6	14.8	3,369	23.1	419	2.9
CUNY TOTAL	34,316	13,470	3,372	49.1	16.2	3,437	10.0	4,655	13.6

*Of students starting at a community college, the number graduating from both a community and senior college was 269. These students are included under both CC and SC graduates.

All other footnotes for this table appear at the end of the report.

Table 3: Eight Semester Graduation and Retention by College, Fall 1970 Freshmen with High School Averages of 80 and Above[1]

College of Original Enrollment	Total First Semester Freshmen (a)	Graduated or Enrolled in 8th Semester with: Continuous Attendance (b)	Interrupted Attendance (c)	Graduat'n-Retention Rate (b)+(c)/(a)	Rate of Return After Withdrawel (c)/(a)-(b)	Graduated, Community College* N (d)	% (d)/(a)	Graduated, Senior College 2 N (e)	% (e)/(a)
SENIOR									
Baruch	463	272	30	65.2	15.7	0	0.0	104	22.5
Brooklyn	2,875	1,802	213	70.1	19.8	4	0.1	1,033	35.9
City	1,492	805	168	65.2	24.4	4	0.3	323	21.6
Hunter	1,772	945	129	60.6	15.6	6	0.3	538	30.4
John Jay	85	34	9	50.6	17.6	0	0.0	16	18.8
Lehman	910	524	76	65.9	19.7	0	0.0	378	41.5
Queens	2,597	1,654	200	71.4	21.2	14	0.5	821	31.6
York	121	48	16	52.9	21.9	0	0.0	31	25.6
SC TOTAL	10,315	6,084	841	67.1	19.9	28	0.3	3,244	31.4
COMMUNITY									
Manhattan	150	78	12	60.0	16.7	75	50.0	8	5.3
Bronx	190	60	17	40.5	13.1	52	27.4	4	2.1
Hostos	11	0	4	36.4	36.4	0	0.0	0	0.0
Kingsborough	129	76	5	62.8	9.4	66	51.2	8	6.2
New York City	251	114	14	51.0	10.2	111	44.2	5	2.0
Queensborough	337	139	29	49.8	14.6	123	36.5	12	3.6
Staten Island	308	122	39	52.3	21.0	106	34.4	35	11.4
CC TOTAL	1,376	589	120	51.5	15.2	533	38.7	72	5.2
CUNY TOTAL	11,691	6,673	961	65.3	19.2	561	4.8	3,316	28.4

*Of students starting at a community college the number graduating from both a community and senior college was 47. These students are included under both CC and SC graduates.

All other footnotes for this table appear at the end of the report.

Table 4: Eight Semester Graduation and Retention by College, Fall 1970 Freshmen with High School Averages Between 75-79[1]

College of Original Enrollment	Total First Semester Freshmen (a)	Graduated or Enrolled in 8th Semester with: Continuous Attendance (b)	Interrupted Attendance (c)	Graduat'n-Retention Rate (b)+(c)/(a)	Rate of Return After Withdrawal (c)/(a)-(b)	Graduated, Community College* N (d)	% (d)/(a)	Graduated, Senior College[2] N (e)	% (e)/(a)
SENIOR									
Baruch	575	232	29	45.4	8.4	3	0.5	61	10.6
Brooklyn	659	307	59	55.5	16.8	5	0.8	113	17.2
City	703	288	76	51.8	18.3	5	0.7	75	10.7
Hunter	670	250	61	46.4	14.5	3	0.4	76	11.3
John Jay	170	46	18	37.6	14.5	1	0.6	18	10.6
Lehman	802	331	104	54.2	22.1	3	0.4	172	21.4
Queens	499	243	46	57.9	18.0	4	0.8	60	12.0
York	376	153	46	52.9	20.6	0	0.0	69	18.4
SC TOTAL	4,454	1,850	439	51.4	16.9	24	0.5	644	14.5
COMMUNITY									
Manhattan	315	111	37	47.0	18.1	106	33.6	14	4.4
Bronx	384	108	43	39.3	15.6	88	22.9	10	2.6
Hostos	39	0	8	20.5	20.5	0	0.0	1	2.6
Kingsborough	414	207	34	58.2	16.4	185	44.7	31	7.5
New York City	474	182	27	44.1	9.2	165	34.8	7	1.5
Queensborough	823	274	62	40.8	11.3	240	29.2	25	3.0
Staten Island	465	144	53	42.4	16.5	102	21.9	29	6.2
CC TOTAL	2,914	1,026	264	44.3	14.0	886	30.4	117	4.0
CUNY TOTAL	7,368	2,876	703	48.6	15.7	910	12.4	761	10.3

*Of students starting at a community college the number graduating from both community and senior college was 75. These students are included under both CC and SC graduates.

All other footnotes for this table appear at the end of the report.

Table 5: Eight Semester Graduation and Retention by College, Fall 1970 Freshmen with High School Averages Between 70-74[1]

College of Original Enrollment	Total First Semester Freshmen (a)	Graduated or Enrolled in 8th Semester with: Continuous Attendance (b)	Interrupted Attendance (c)	Graduat'n-Retention Rate (b)+(c)/(a)	Rate of Return After Withdrawal (c)/(a)-(b)	Graduated, Community College* N (d)	Graduated, Community College* % (d)/(a)	Graduated, Senior College[2] N (e)	Graduated, Senior College[2] % (e)/(a)
SENIOR									
Baruch	295	87	24	37.6	11.5	0	0.0	17	5.8
Brooklyn	364	112	49	44.2	19.4	1	0.3	35	9.6
City	424	159	45	48.1	17.0	1	0.2	24	5.7
Hunter	351	104	34	38.2	12.3	1	0.3	16	4.6
John Jay	333	99	26	37.5	11.1	0	0.0	19	5.7
Lehman	368	120	44	44.6	17.7	4	1.1	45	12.2
Queens	137	36	20	40.9	19.8	0	0.0	6	4.4
York	202	70	24	46.5	18.2	2	1.0	29	14.4
SC TOTAL	2,504	787	266	42.0	15.5	9	0.4	191	7.6
COMMUNITY									
Manhattan	387	125	52	45.7	19.8	107	27.6	11	2.8
Bronx	642	184	63	38.5	13.8	126	19.6	17	2.6
Hostos	92	0	22	23.9	23.9	11	12.0	2	2.2
Kingsborough	786	312	65	48.0	13.7	253	32.2	46	5.8
New York City	675	215	31	36.4	6.7	172	25.5	11	1.6
Queensborough	1,061	307	103	38.6	13.7	241	22.7	16	1.5
Staten Island	625	133	88	35.4	17.9	100	16.0	14	2.2
CC TOTAL	4,268	1,276	424	39.8	14.2	1,010	23.7	117	2.7
CUNY TOTAL	6,772	2,063	690	40.6	14.6	1,019	15.0	308	4.6

*Of students starting at a community college the number graduating from both a community and senior college was 84. These students are included under both CC and SC graduates.

All other footnotes for this table appear at the end of the report.

Table 6: Eight Semester Graduation and Retention by College, Fall 1970 Freshmen with High School Averages Below 70[1]

College of Original Enrollment	Total First Semester Freshmen (a)	Graduated or Enrolled in 8th Semester with: Continuous Attendance (b)	Interrupted Attendance (c)	Graduat'n-Retention Rate (b)+(c)/(a)	Rate of Return After Withdrawal (c)/(a)-(b)	Graduated, Community College* N (d)	% (d)/(a)	Graduated, Senior College[2] N (e)	% (e)/(a)
SENIOR									
Baruch	182	36	16	28.6	11.0	2	1.1	4	2.2
Brooklyn	241	55	25	33.2	13.4	1	0.4	8	3.3
City	291	90	34	42.6	16.9	0	0.0	6	2.1
Hunter	165	32	18	30.3	13.5	1	0.6	2	1.2
John Jay	343	88	33	35.3	12.9	2	0.6	10	2.9
Lehman	193	42	22	33.2	14.6	0	0.0	12	6.2
Queens	141	41	22	44.7	22.0	0	0.0	3	2.1
York	108	31	15	42.6	19.5	0	0.0	3	2.8
SC TOTAL	1,664	415	185	36.1	14.8	6	0.4	48	2.9
COMMUNITY									
Manhattan	426	131	53	43.2	18.0	100	23.5	8	1.9
Bronx	628	112	64	28.0	12.4	65	10.4	6	1.0
Hostos	114	0	34	29.8	29.8	10	8.8	3	2.6
Kingsborough	958	253	87	35.5	12.3	203	21.2	18	1.9
New York City	770	182	51	30.3	8.7	134	17.4	8	1.0
Queensborough	887	146	88	26.4	11.9	98	11.0	12	1.4
Staten Island	470	78	52	27.7	13.3	44	9.4	10	2.1
CC TOTAL	4,253	902	429	31.3	12.8	654	15.4	65	1.5
CUNY TOTAL	5,917	1,317	614	32.6	13.4	660	11.2	113	1.9

*Of students starting at a community college, the number graduating from both a community and senior college was 40. These students are included under both CC and SC graduates.

All other footnotes for this table appear at the end of the report.

Table 7: Eight Semester Graduation and Retention by Sex and High School Average[1]
Fall 1970 Senior College Freshmen

College of Original Enrollment	Total First Semester Freshmen[3] (a)	Graduated or Enrolled in 8th Semester with: Continuous Attendance (b)	Interrupted Attendance (c)	Graduat'n-Retention Rate (b)+(c)/(a)	Rate of Return After Withdrawal (c)/(a)-(b)	Graduated, Community College N (d)	% (d)/(a)	Graduated, Senior College[2] N (e)	% (e)/(a)
SC FEMALES									
H.S. Average									
80 +	5,289	3,114	366	65.8	16.8	19	0.4	2,060	39.0
75-79	1,842	826	162	53.6	15.9	13	0.7	374	20.3
70-74	965	342	105	46.3	16.8	5	0.5	103	10.7
Below 70	573	167	73	41.9	18.0	2	0.4	22	3.8
Unknown	170	73	20	54.7	20.6	0	0.0	32	18.8
SC FEMALE TOTAL	8,839	4,522	726	59.4	16.8	39	0.4	2,591	29.3
SC MALES									
H.S. Average									
80 +	4,824	2,940	418	69.6	22.2	8	0.2	1,150	23.8
75-79	2,471	1,003	242	50.4	16.5	10	0.4	260	10.5
70-74	1,389	417	136	39.8	14.0	4	0.3	74	5.3
Below 70	935	224	99	34.6	13.9	4	0.4	24	2.6
Unknown	225	77	21	43.6	14.2	0	0.0	23	10.2
SC MALE TOTAL	9,844	4,661	916	56.6	17.7	26	0.3	1,531	15.6
SC TOTAL	18,683	9,183	1,642	57.9	17.3	65	0.4	4,122	22.1

All footnotes for this table appear at the end of the report.

Table 8: Eight Semester Graduation and Retention by Sex and High School Average[1], Fall 1970 Community College Freshmen

College of Original Enrollment	Total First Semester Freshmen[3] (a)	Graduated or Enrolled in 8th Semester with: Continuous Attendance (b)	Interrupted Attendance (c)	Graduat'n-Retention Rate (b)+(c)/(a)	Rate of Return After Withdrawal (c)/(a)-(b)	Graduated, Community College* N (d)	% (d)/(a)	Graduated, Senior College[2] N (e)	% (e)/(a)
CC FEMALES									
H.S. Average									
80 +	996	480	71	55.3	13.8	433	43.5	62	6.2
75-79	1,613	647	124	47.8	12.8	584	36.2	85	5.3
70-74	1,885	644	156	42.4	12.6	536	28.4	69	3.7
Below 70	1,499	411	152	37.6	14.0	288	19.2	33	2.2
Unknown	337	51	55	31.4	19.2	45	13.4	3	0.9
CC FEMALE TOTAL	6,330	2,233	558	44.1	13.6	1,886	29.8	252	4.0
CC MALES									
H.S. Average									
80 +	311	109	34	46.0	16.8	91	29.3	9	2.9
75-79	1,179	378	102	40.7	12.7	282	23.9	27	2.3
70-74	2,212	630	221	38.5	14.0	451	20.4	48	2.2
Below 70	2,576	490	236	28.2	11.3	347	13.5	28	1.1
Unknown	421	75	38	26.8	11.0	50	11.9	10	2.4
CC MALE TOTAL	6,699	1,682	631	34.5	12.6	1,221	18.2	122	1.8
CC TOTAL	13,029	3,915	1,189	39.2	13.0	3,107	23.8	374	2.9

*Of students starting at a community college, the number graduating from both a community and senior college was 247 -- 173 females and 74 males. These students are included under both CC and SC graduates.

All other footnotes for this table appear at the end of the report.

Table 9: Eight Semester Graduation and Retention by Sex and College, Fall 1970 Freshmen

College of Enrollment	Total First Semester Freshmen[3] Female	Male	Retention-Graduation Rate Female	Male	Percent Graduating From: Community College Female	Male	Senior College Female	Male
SENIOR								
Baruch	386	1,146	42.0	49.7	*	*	12.7	12.0
Brooklyn	1,805	1,972	65.4	67.7	*	*	39.3	23.5
City	1,162	1,931	58.4	56.5	*	*	20.1	11.8
Hunter	2,111	839	55.7	45.8	*	*	25.2	11.0
John Jay	143	822	44.1	36.4	*	*	10.5	6.1
Lehman	1,177	1,046	57.9	53.5	*	*	33.6	19.3
Queens	1,733	1,629	66.0	68.0	*	*	33.1	19.2
York	322	459	50.9	50.8	*	*	25.5	9.8
SC TOTAL	8,839	9,844	59.4	56.6	0.4	0.3	29.3	15.6
COMMUNITY								
Manhattan	801	483	51.1	41.6	36.2	22.6	4.6	1.0
Bronx	980	922	38.0	31.6	21.5	13.1	2.0	1.3
Hostos	304	153	27.6	25.5	9.5	5.9	2.6	0.0
Kingsborough	1,204	1,218	49.3	39.0	36.0	23.6	5.1	3.3
New York City	1,082	1,258	40.1	34.3	29.5	23.0	1.9	1.3
Queensborough	1,278	1,621	45.2	32.6	31.9	16.8	3.3	1.2
Staten Island	681	1,044	47.1	33.1	29.1	12.8	9.4	2.1
CC TOTAL	6,330	6,699	44.1	34.5	29.8	18.2	4.0	1.8

*Numbers are too small for meaningful percentaging

All other footnotes for this table appear at the end of the report.

Table 10: Eight Semester Graduation and Retention by Race-Ethnicity of Residential Area[4], Fall 1970 Freshmen

College of Original Enrollment / Race-Ethnicity of Residential Area	Total First Semester Freshmen[3] (a)	Graduated or Enrolled in 8th Semester with: Continuous Attendance (b)	Interrupted Attendance (c)	Graduat'n-Retention Rate (b)+(c)/(a)	Rate of Return After Withdrawal (c)/(a)-(b)	Graduated, Community College* N (d)	% (d)/(a)	Graduated, Senior College[2] N (e)	% (e)/(a)
SENIOR									
Predom. Black	736	266	84	47.6	17.9	0	0.0	60	8.2
Mostly Black	1,442	565	153	49.8	17.4	7	0.5	164	11.4
Puerto Rican	1,428	513	134	45.3	14.6	3	0.2	163	11.4
Mostly White	2,226	1,045	221	56.9	18.7	9	0.4	435	19.5
Predom. White	11,397	6,217	937	62.8	18.1	44	0.4	3,025	26.5
SC TOTAL	17,229	8,606	1,529	58.8	17.7	63	0.4	3,847	22.3
COMMUNITY									
Predom. Black	657	178	65	37.0	13.6	122	18.6	8	1.2
Mostly Black	1,050	304	98	38.3	13.1	235	22.4	10	1.0
Puerto Rican	946	243	81	34.2	11.5	189	20.0	13	1.4
Mostly White	1,535	411	139	35.8	12.4	335	21.8	26	1.7
Predom. White	7,288	2,481	593	42.2	12.3	1,993	27.4	275	3.8
CC TOTAL	11,476	3,617	976	40.0	12.4	2,874	25.0	332	2.9
CUNY TOTAL	28,705	12,223	2,505	51.3	15.2	2,937	10.2	4,179	14.6

*Of students starting at a community college, the number graduating from both a community and senior college was 233. These students are included under both CC and SC graduates.

All other footnotes for this table appear at the end of the report.

Table 11: Eight Semester Graduation and Retention by Median Family Income of Residential Area[4], Fall 1970 Freshmen

College of Original Enrollment	Total First Semester Freshmen[3]	Graduated or Enrolled in 8th Semester with:		Graduat'n-Retention Rate	Rate of Return After Withdrawal	Graduated, Community College*		Graduated, Senior College[2]	
		Continuous Attendance	Interrupted Attendance			N	%	N	%
Mdn. Family Income of Residential Area	(a)	(b)	(c)	(b)+(c)/(a)	(c)/(a)-(b)	(d)	(d)/(a)	(e)	(e)/(a)
SENIOR									
Below $6,000	927	315	92	43.9	15.0	1	0.1	82	8.8
$6,000-$7,999	3,239	1,292	315	49.6	16.2	10	0.3	424	13.1
$8,000-$9,999	2,813	1,357	276	58.0	19.0	12	0.4	611	21.7
$10,000-$11,999	6,440	3,477	537	62.3	18.1	23	0.4	1,691	26.3
$12,000-$14,999	3,043	1,753	259	66.1	20.1	15	0.5	853	28.0
$15,000 +	767	412	50	60.2	14.1	2	0.3	186	24.2
SC TOTAL	17,229	8,606	1,529	58.8	17.7	63	0.4	3,847	22.3
COMMUNITY									
Below $6,000	650	180	53	35.8	11.3	128	19.7	10	1.5
$6,000-$7,999	2,241	623	182	35.9	11.2	479	21.4	26	1.2
$8,000-$9,999	1,860	575	187	41.0	14.6	466	25.0	52	2.8
$10,000-$11,999	4,154	1,352	347	40.9	12.4	1,103	26.6	131	3.2
$12,000-$14,999	2,093	708	166	41.8	12.0	556	26.6	95	4.5
$15,000 +	478	179	41	46.0	13.7	142	29.7	18	3.8
CC TOTAL	11,476	3,617	976	40.0	12.4	2,874	25.0	332	2.9
CUNY TOTAL	28,705	12,223	2,505	51.3	15.2	2,937	10.2	4,179	14.6

*Of students starting at a community college, the number graduating from both a community and senior college was 233. These students are included under both CC and SC graduates.

All other footnotes for this table appear at the end of the report.

Table 12: Eight Semester Graduation and Retention by Race-Ethnicity and Median Family Income of Residential Area[4], Fall 1970 Freshmen

College of Original Enrollment / Residential Area Characteristic	Total First Semester Freshmen[3] (a)	Graduated or Enrolled in 8th Semester with: Continuous Attendance (b)	Graduated or Enrolled in 8th Semester with: Interrupted Attendance (c)	Graduat'n-Retention Rate (b)+(c)/(a)	Rate of Return After Withdrawal (c)/(a)-(b)	Graduated, Community College * N (d)	Graduated, Community College * % (d)/(a)	Graduated, Senior College[2] N (e)	Graduated, Senior College[2] % (e)/(a)
SENIOR									
Black & PR									
Below $8,000	2,951	1,051	298	45.7	15.7	8	0.3	287	9.7
$8,000-$11,999	655	293	73	55.9	20.2	2	0.3	100	15.3
White									
Below $8,000	1,215	556	109	54.7	16.5	3	0.2	219	18.0
$8,000-$11,999	8,598	4,541	740	61.4	18.2	33	0.4	2,202	25.6
$12,000 +	3,810	2,165	309	64.9	18.8	17	0.4	1,039	27.3
SC TOTAL	17,229	8,606	1,529	58.8	17.7	63	0.4	3,847	22.3
COMMUNITY									
Black & PR									
Below $8,000	2,122	592	183	36.5	12.0	443	20.9	26	1.2
$8,000-$11,999	531	133	61	36.5	15.3	103	19.4	5	0.9
White									
Below $8,000	769	211	52	34.2	9.3	164	21.3	10	1.3
$8,000-$11,999	5,483	1,794	473	41.4	12.8	1,466	26.7	178	3.2
$12,000 +	2,571	887	207	42.6	12.3	698	27.2	113	4.4
CC TOTAL	11,476	3,617	976	40.0	12.4	2,874	25.0	332	2.9
CUNY TOTAL	28,705	12,223	2,505	51.3	15.2	2,937	10.2	4,179	14.6

* Of students starting at a community college, the number graduating from both a community and senior college was 233. These students are included under both CC and SC graduates.

All other footnotes for this table appear at the end of the report.

Table 13: Two Semester Retention by High School Average[1], Fall 1970, Fall 1971, Fall 1972, and Fall 1973 Senior College Freshmen

College of Original Enrollment SENIOR	Total First Semester Freshmen (a)	Graduated or Enrolled in 2nd Semester with: Continuous Attendance (b)	Interrupted Attendance (c)	Graduat'n-Retention Rate (b)+(c)/(a)	Rate of Return After Withdrawal (c)/(a)-(b)	Graduated, Community College N (d)	Graduated, Community College % (d)/(a)	Graduated, Senior College N (e)	Graduated, Senior College % (e)/(a)
FALL 1970 COHORT									
H.S Average									
80 +	10,315	9,526	--	92.4	--				
75-79	4,454	3,870	--	86.9	--				
70-74	2,504	2,110	--	84.3	--				
Below 70	1,664	1,357	--	81.6	--				
Unknown	817	675	--	82.6	--				
TOTAL	19,754	17,538	--	88.8	--				
FALL 1971 COHORT									
H.S. Average									
80 +	10,000	9,206	--	92.1	--				
75-79	4,433	3,843	--	86.7	--				
70-74	2,592	2,203	--	85.0	--				
Below 70	1,445	1,159	--	80.2	--				
Unknown	536	403	--	75.2	--				
TOTAL	19,006	16,814	--	88.5	--				

Table 13: Continued

College of Original Enrollment SENIOR	Total First Semester Freshmen (a)	Graduated or Enrolled in 2nd Semester with: Continuous Attendance (b)	Interrupted Attendance (c)	Graduat'n-Retention Rate (b)+(c)/(a)	Rate of Return After Withdrawal (c)/(a)-(b)	Graduated, Community College N (d)	Graduated, Community College % (d)/(a)	Graduated, Senior College N (e)	Graduated, Senior College % (e)/(a)
FALL 1972 COHORT									
H.S Average									
80 +	9,437	8,631	--	91.5	--				
75-79	4,504	3,845	--	85.4	--				
70-74	2,819	2,338	--	82.9	--				
Below 70	1,734	1,435	--	82.8	--				
Unknown	1,281	1,048	--	81.8	--				
TOTAL	19,775	17,297	--	87.5	--				
FALL 1973 COHORT									
H.S. Average									
80 +	8,709	7,881	--	90.5	--				
75-79	4,185	3,580	--	85.5	--				
70-74	2,586	2,159	--	83.5	--				
Below 70	2,582	2,053	--	79.5	--				
Unknown	1,367	1,104	--	80.8	--				
TOTAL	19,429	16,777	--	86.4	--				

All footnotes for this table appear at the end of the report.

Table 14: Two Semester Retention by High School Average[1], Fall 1970, Fall 1971, Fall 1972, and Fall 1973 Community College Freshmen

College of Original Enrollment	Total First Semester Freshmen	Graduated or Enrolled in 2nd Semester with: Continuous Attendance	Interrupted Attendance	Graduat'n-Retention Rate	Rate of Return After Withdrawal	Graduated, Community College N	%	Graduated, Senior College N	%
COMMUNITY	(a)	(b)	(c)	(b)+(c)/(a)	(c)/(a)-(b)	(d)	(d)/(a)	(e)	(e)/(c)
FALL 1970 COHORT									
H.S Average									
80 +	1,376	1,105	--	80.3	--				
75-79	2,914	2,317	--	79.5	--				
70-74	4,268	3,298	--	77.3	--				
Below 70	4,253	3,171	--	74.6	--				
Unknown	1,751	916	--	52.3	--				
TOTAL	14,562	10,807	--	74.2	--				
FALL 1971 COHORT									
H.S. Average									
80 +	1,590	1,325	--	83.3	--				
75-79	3,281	2,703	--	82.4	--				
70-74	4,659	3,697	--	79.4	--				
Below 70	5,169	3,933	--	76.1	--				
Unknown	1,936	1,426	--	73.7	--				
TOTAL	16,635	13,084	--	78.6	--				

Table 14: Continued

College of Original Enrollment	Total First Semester Freshman	Graduated or Enrolled in 2nd Semester with: Continuous Attendance	Interrupted Attendance	Graduat'n-Retention Rate	Rate of Return After Withdrawal	Graduated, Community College N	%	Graduated, Senior College N	%
COMMUNITY	(a)	(b)	(c)	(b)+(c)/(a)	(c)/(a)-(b)	(d)	(d)/(a)	(e)	(e)/(a)
FALL 1972 COHORT									
H.S. Average									
80 +	1,856	1,612	--	86.8	--				
75-79	2,962	2,489	--	84.0	--				
70-74	4,210	3,377	--	80.2	--				
Below 70	5,023	3,933	--	78.3	--				
Unknown	2,849	2,181	--	76.6	--				
TOTAL	16,900	13,592	--	80.4	--				
FALL 1973 COHORT									
H.S. Average									
80 +	2,177	1,893	--	87.0	--				
75-79	3,047	2,535	--	83.2	--				
70-74	4,556	3,635	--	79.8	--				
Below 70	5,090	3,943	--	77.5	--				
Unknown	2,660	2,005	--	75.4	--				
TOTAL	17,530	14,011	--	79.9	--				

All footnotes for this table appear at the end of the report.

Table 15: Four Semester Graduation and Retention by High School Average[1]
Fall 1970, Fall 1971, and Fall 1972 Senior College Freshmen

College of Original Enrollment SENIOR	Total First Semester Freshmen (a)	Graduated or Enrolled in 4th Semester with: Continuous Attendance (b)	Interrupted Attendance (c)	Graduat'n-Retention Rate (b)+(c)/(a)	Rate of Return After Withdrawal (c)/(a)-(b)	Graduated, Community College N (d)	% (d)/(a)	Graduated, Senior College N (e)	% (e)/(a)
FALL 1970 COHORT									
H.S. Average									
80 +	10,315	8,087	358	81.9	16.1				
75-79	4,454	2,989	235	72.4	16.0				
70-74	2,504	1,505	164	66.6	16.4				
Below 70	1,664	923	112	62.2	15.1				
Unknown	817	477	61	65.8	17.9				
TOTAL	19,754	13,981	930	75.5	16.1				
FALL 1971 COHORT									
H.S. Average									
80 +	10,000	7,702	277	79.8	12.0				
75-79	4,433	2,833	193	68.3	12.1				
70-74	2,592	1,505	147	63.7	13.5				
Below 70	1,445	789	111	62.3	16.9				
Unknown	536	273	52	60.6	19.8				
TOTAL	19,006	13,102	780	73.0	13.2				
FALL 1972 COHORT									
H.S. Average									
80 +	9,437	7,189	234	78.7	10.4				
75-79	4,504	2,804	182	66.3	10.7				
70-74	2,819	1,565	126	60.0	10.0				
Below 70	1,734	922	79	57.7	9.7				
Unknown	1,281	689	48	57.5	8.1				
TOTAL	19,775	13,169	669	70.0	10.1				

All footnotes for this table appear at the end of the report.

Table 16: Four Semester Graduation and Retention by High School Average[1], Fall 1970, Fall 1971, and Fall 1972 Community College Freshmen

College of Original Enrollment / COMMUNITY	Total First Semester Freshmen (a)	Graduated or Enrolled in 4th Semester with: Continuous Attendance (b)	Interrupted Attendance (c)	Graduat'n-Retention Rate (b)+(c)/(a)	Rate of Return After Withdrawal (c)/(a)-(b)	Graduated, Community College N (d)	Graduated, Community College % (d)/(a)	Graduated, Senior College N (e)	Graduated, Senior College % (e)/(a)
FALL 1970 COHORT									
H.S. Average									
80 +	1,376	827	95	67.0	17.3	284	20.6		
75-79	2,914	1,696	217	65.6	17.8	355	12.2		
70-74	4,268	2,256	326	60.5	16.2	246	5.8		
Below 70	4,253	2,020	358	55.9	16.0	136	3.2		
Unknown	1,751	569	445	57.9	37.6	76	4.3		
TOTAL	14,562	7,368	1,441	60.5	20.0	1,097	7.5		
FALL 1971 COHORT									
H.S Average									
80 +	1,590	1,027	53	67.9	9.4	254	16.0		
75-79	3,281	1,947	143	63.7	10.7	351	10.7		
70-74	4,659	2,504	219	58.4	10.2	284	6.1		
Below 70	5,169	2,427	299	52.7	10.9	171	3.3		
Unknown	1,036	939	195	58.6	19.6	179	9.2		
TOTAL	16,635	8,844	909	58.6	11.7	1,239	7.4		
FALL 1972 COHORT									
H.S. Average									
80 +	1,856	1,243	52	69.8	8.5	298	16.1		
75-79	2,962	1,779	113	63.9	9.6	231	7.8		
70-74	4,210	2,284	161	58.1	8.4	213	5.1		
Below 70	5,023	2,415	257	53.2	9.8	131	2.6		
Unknown	2,849	1,415	172	55.7	12.0	160	5.6		
TOTAL	16,900	9,136	755	58.5	9.7	1,033	6.1		

All footnotes for this table appear at the end of the report.

Table 17: Six Semester Graduation and Retention by High School Average[1], Fall 1970 and Fall 1971 Senior College Freshmen

College of Original Enrollment	Total First Semester Freshmen	Graduated or Enrolled in 6th Semester with:		Graduat'n-Retention Rate	Rate of Return After Withdrawal	Graduated, Community College		Graduated, Senior College	
		Continuous Attendance	Interrupted Attendance			N	%	N	%
SENIOR	(a)	(b)	(c)	(b)+(c)/(a)	(c)/(a)-(b)	(d)	(d)/(a)	(e)	(e)/(a)
FALL 1970 COHORT									
H.S. Average									
80 +	10,315	6,917	681	73.7	20.0				
75-79	4,454	2,284	408	60.4	18.8				
70-74	2,504	1,071	248	52.7	17.3				
Below 70	1,664	606	157	45.8	14.8				
Unknown	817	358	87	54.5	19.0				
TOTAL	19,754	11,236	1,581	64.9	18.6				
FALL 1971 COHORT									
H.S. Average									
80 +	10,000	6,371	550	69.2	15.2				
75-79	4,433	2,041	377	54.6	15.8				
70-74	2,592	996	195	46.0	12.2				
Below 70	1,445	452	165	42.7	16.6				
Unknown	536	174	59	43.5	16.3				
TOTAL	19,006	10,034	1,346	59.9	15.0				

All footnotes for this table appear at the end of the report.

Table 18: Six Semester Graduation and Retention by High School Average[1], Fall 1970 and Fall 1971 Community College Freshmen

College of Original Enrollment	Total First Semester Freshmen	Graduated or Enrolled in 6th Semester with: Continuous Attendance	Interrupted Attendance	Graduat'n-Retention Rate	Rate of Return After Withdrawal	Graduated, Community College N	%	Graduated, Senior College N	%
COMMUNITY	(a)	(b)	(c)	(b)+(c)/(a)	(c)/(a)-(b)	(d)	(d)/(a)	(e)	(e)/(c)
FALL 1970 COHORT									
H.S. Average									
80 +	1,376	652	107	55.2	14.8	494	35.9		
75-79	2,914	1,218	260	50.7	15.3	814	27.9		
70-74	4,268	1,586	394	46.4	14.7	847	19.8		
Below 70	4,253	1,246	434	39.5	14.4	524	12.3		
Unknown	1,751	352	355	40.4	25.4	232	13.2		
TOTAL	14,562	5,054	1,550	45.4	16.3	2,911	20.0		
FALL 1971 COHORT									
H.S. Average									
80 +	1,590	782	101	55.5	12.5	556	35.0		
75-79	3,281	1,411	226	49.9	12.1	924	28.2		
70-74	4,659	1,695	352	43.9	11.9	898	19.3		
Below 70	5,169	1,456	439	36.7	11.8	616	11.9		
Unknown	1,936	663	232	46.2	18.2	396	20.4		
TOTAL	16,635	6,007	1,350	44.2	12.7	3,390	20.4		

All footnotes for this table appear at the end of the report.

Table 19: Two, Four, and Six Semester Graduation-Retention Rates by Sex, Fall 1970, 1971, 1972, and 1973 Freshmen

College of Original Enrollment	Total First Semester Freshmen		Two Semester Retention Rates		Four Semester Graduat'n-Retention Rates		Six Semester Graduat'n Retention Rates	
	Female	Male	Female	Male	Female	Male	Female	Male
SENIOR								
1970 Cohort	8,839	9,844	90.8	88.9	77.7	75.2	67.8	64.3
1971 Cohort	9,478	9,487	89.5	87.5	75.5	70.7	62.1	57.8
1972 Cohort	9,330	9,429	88.7	87.0	72.0	69.6		
1973 Cohort	9,250	9,180	87.6	85.9				
COMMUNITY								
1970 Cohort	6,330	6,699	79.3	78.4	64.3	58.0	50.3	41.7
1971 Cohort	7,932	8,517	81.5	75.9	63.9	53.5	48.4	40.1
1972 Cohort	7,666	6,899	83.4	78.3	62.3	54.5		
1973 Cohort	8,424	6,873	82.6	78.6				

Table 20: Four and Six Semester Community College Graduation Rates by Sex, Fall 1970, 1971, and 1972 Community College Freshmen Graduating From Community College

College of Original Enrollment	Total First Semester Freshmen		Percent Graduating After Four Semesters		Percent Graduating After Six Semesters	
	Female	Male	Female	Male	Female	Male
COMMUNITY						
1970 Cohort	6,330	6,699	11.5	4.3	26.5	15.1
1971 Cohort	7,932	8,517	9.3	5.4	25.7	15.2
1972 Cohort	7,666	6,899	7.8	4.1		

Table 21: Graduation-Retention Rates After Two, Four, and Six Semesters by Race-Ethnicity and Median Family Income of Residential Area:[4] Fall 1970, 1971, 1972, and 1973 Senior College Freshmen

Residential Area Characteristics	Total First Sem. Freshmen	Two Sem. Reten.	Four Sem. Reten.-Grad.	Six Sem. Reten.-Grad.
Senior Colleges				
Fall 1970 Cohort				
Black, PR; Below $8,000	2,951	87.3	71.2	57.2
Black, PR; $8,000-11,999	655	91.9	75.9	64.9
White; Below $8,000-11,999	1,215	88.4	75.1	63.0
White; $8,000-11,999	8,598	91.2	79.2	68.8
White; $12,000 +	3,810	92.4	79.5	71.2
Fall 1971 Cohort				
Black, PR; Below $8,000	3,051	85.7	66.9	50.2
Black, PR; $8,000-11,999	813	88.9	73.9	58.9
White; Below $8,000	1,228	86.6	68.6	55.4
White; $8,000-11,999	8,913	89.9	75.0	63.0
White; $12,000 +	3,854	90.8	77.1	65.4
Fall 1972 Cohort				
Black, PR; Below $8,000	3,411	85.3	63.5	
Black, PR; $8,000-11,999	840	87.6	69.0	
White; Below $8,000	1,175	81.7	65.3	
White; $8,000-11,999	9,131	88.8	72.6	
White; $12,000 +	3,674	90.0	75.6	
Fall 1973 Cohort				
Black, PR; Below $8,000	3,479	83.8		
Black, PR; $8,000-11,999	821	87.7		
White; Below $8,000	1,266	83.9		
White; $8,000-11,999	9,024	87.5		
White; $12,000 +	3,383	89.0		

All footnotes for this table appear at the end of the report.

Table 22: Graduation and Retention After Two, Four, and Six Semesters by Race-Ethnicity and Median Family Income of Residential Area[4]: Fall, 1970, 1971, 1972, and 1973 Community College Freshmen

Residential Area Characteristics	Total First Sem. Freshmen	Two Sem. Reten.	Four Sem. Reten.-Grad.	Six Sem. Reten.-Grad.	Percent Graduating From CC After: Four Sem.	Six Sem.
Community Colleges						
Fall 1970 Cohort						
Black, PR; Below $8,000	2,122	80.2	60.7	44.6	5.2	17.3
Black, PR; $8,000-11,999	531	84.2	64.4	47.1	4.3	16.4
White; Below $8,000	769	79.7	59.0	45.0	6.5	18.7
White; $8,000-11,999	5,483	81.4	61.4	47.3	9.4	23.3
White; $12,000 +	2,571	84.0	62.8	47.6	9.5	24.4
Fall 1971 Cohort						
Black, PR; Below $8,000	3,073	78.1	56.6	41.6	5.1	15.8
Black, PR; $8,000-11,999	677	81.0	60.9	47.7	5.3	18.3
White; Below $8,000	933	77.4	58.6	43.3	6.4	20.4
White; $8,000-11,999	6,642	79.4	58.8	44.1	7.6	21.5
White; $12,000 +	2,954	81.7	60.5	45.9	7.9	21.8
Fall 1972 Cohort						
Black, PR; Below $8,000	3,121	81.3	57.6		2.8	
Black, PR; $8,000-11,999	711	81.9	60.8		4.4	
White; Below $8,000	921	81.1	56.9		4.9	
White; $8,000-11,999	6,469	80.2	58.8		7.3	
White; $12,000 +	2,991	82.1	60.2		7.8	
Fall 1973 Cohort						
Black, PR; Below $8,000	3,573	81.1				
Black, PR; $8,000-11,999	812	81.8				
White; Below $8,000	1,184	79.6				
White; $8,000-11,999	6,447	80.4				
White; $12,000 +	2,933	81.6				

All footnotes for this table appear at the end of the report.

Table 23: Comparative Graduation Rates After Four Years: Fall 1960 and Fall 1970 Freshmen at Brooklyn, Queens, Hunter, and City Colleges

Fall 1960 Freshmen (Total)*	Brooklyn	Queens	Hunter	City	Total
Number enrolled	1,771	1,475	2,052	2,550	7,848
Number graduated by Spr. 1964	1,042	802	1,012	895	3,751
Percent	58.8	54.4	49.3	35.1	47.8
Fall 1970 Freshmen (Total)					
Number enrolled	4,362	3,458	3,091	3,093	14,004
Number graduated by Spr. 1974	1,219	898	644	461	3,222
Percent	28.0	26.0	20.8	14.9	23.0
Fall 1970 Freshmen (HSA 80 & Above)					
Number enrolled	2,875	2,597	1,772	1,492	8,736
Number graduated by Spr. 1974	1,033	821	538	323	2,715
Percent	35.9	31.6	30.4	21.6	31.1
Fall 1970 Freshmen (HSA 85 & Above)					
Number enrolled	1,751	1,453	786	712	4,702
Number graduated by Spr. 1974	730	558	290	206	1,784
Percent	41.7	38.4	36.9	28.9	37.9

*Source: Pearl Max, How Many Graduate. CUNY, November 1968.

Table 24: Comparative Graduation Rates: Four Year Degrees from CUNY and Other Institutions

CUNY Senior Colleges	Fall Semester 1970 Freshmen	Graduation Rate After Four Years
	19,754	21.4*

*This figure excludes students whose initial enrollment was at a senior college but who graduated with a community college degree.

SUNY*	Fall Semester 1969 Freshmen	Graduation Rate After Four Years
State University Centers	6,303	52.2
State University Colleges**	10,468	50.8
State University College at Buffalo	1,245	51.9

*Source: SUNY (1974)
**Excludes Empire State, Purchase, and Utica/Rome Colleges

Federal City College* (Washington, D.C.)	Fall Quarter Freshmen	Graduation Rate After Four Years
1968	1,818	9.2
1969	2,527	8.7
1970	1,320	5.1

*Source: Federal City College Office of Institutional Research; similar admissions policy as CUNY.

	Fall Quarter 1970 Freshmen	Graduation Rate After Four Years*
Wayne State University	2,752	62.0

*Source: Wayne State University Office of Institutional Research; estimated

Table 25: Comparative Graduation Rates: Two Year Degrees From CUNY and Other Institutions

CUNY CCs	Fall Semester Freshmen	Cumulative Two Years	Graduation Rates After: Three Years	Four Years
1970	14,562	7.5	20.0	23.1*
1971	16,635	7.4	20.4	
1972	16,900	6.1		

*This figure excludes students whose initial enrollment was at a community college but who graduated with a senior college degree

SUNY Urban CCs*	Fall Semester 1971 Freshmen	Cumulative Two Years	Graduation Rates After: Two and 1/2 Years
Broome CC (Binghamton)	1,165	43.9	45.8
Erie CC (Buffalo-City)	350	17.1	17.1
Erie CC (Buffalo-North)	2,362	50.5	51.6
Hudson Valley CC (Troy-Albany)	1,950	45.0	50.0
Monroe CC (Rochester)	1,976	24.2	34.1
Onondaga CC (Syracuse)	1,032	27.5	31.5
Total SUNY**	29,325	36.5	41.4

*Source: SUNY (1974);
**Excludes CUNY, Westchester CC, Erie CC-South, and Agricultural and Technical Colleges

Cuyahoga CC * (Cleveland, Ohio)	Fall Quarter 1968 Freshmen	Cumulative Two Years	Graduation Rates After: Seven Quarters
Urban Campus	1,000	5.3	7.6
Total College	1,642	6.7	9.1

*Source: Cuyahoga Community College, Office of Institutional Research

Table 26: Senior College Graduation and Retention After Four Years: Comparison of National Sample* (Fall 1966 Freshmen) and CUNY Cohort (Fall 1970 Freshmen)

High School Average	Number of Students National Actual	National Weighted	CUNY	Received Bachelor's Degree National**	CUNY	Received Degree or Still Enrolled National**	CUNY***
80+	3,069	239,280	10,315	49.1%	31.4%	58.5%	66.8%
75-79	461	50,629	4,454	26.5	14.5	39.8	50.9
70-74	284	36,783	2,504	14.3	7.6	29.2	41.6

* In the lowest high school average category (those with averages of less than 70) the actual number of students in the national sample (N=10) is too small to be a reliable comparison group for CUNY where the number in this category is 1,664.

** Based on weighted data for public four year colleges (Source: Alexander W. Astin, personal communication).

*** CUNY data differ slightly from those in Table 1; omitted are 68 senior college freshmen who graduated from community colleges.

Table 27: Community College Graduation and Retention After Four Years: Comparison of National Sample* (Fall 1966 Freshmen) and CUNY Cohort (Fall 1970 Freshmen)

High School Average	Number of Students National Actual	Number of Students National Weighted	Number of Students CUNY	Received Associate's Degree National**	Received Associate's Degree CUNY	Received Degree or Still Enrolled National**	Received Degree or Still Enrolled CUNY***
80+	770	119,529	1,376	34.8%	38.7%	36.8%	49.7%
75-79	373	67,195	2,914	27.4	30.4	29.9	42.8
70-74	348	65,160	4,268	20.4	23.7	23.1	36.0

* In the lowest high school average category (those with averages of less than 70) the actual number of students in the national sample (N=19) is too small to be a reliable comparison group for CUNY where the number in this category is 4,253.

** Based on weighted data for public two year colleges (Source: Alexander W. Astin, personal communication).

*** CUNY data differ slightly from those in Table 1; omitted are 150 community college freshmen who graduated from senior colleges without receiving the community college degree.

TABLE FOOTNOTES

1. High school average refers to the University's college admissions average. This is computed from grades in the following academic subjects: English, mathematics, science, foreign languages, social science.

2. Data currently available do not enable us to identify the relatively small number of students graduating with the Associate's rather than the Bachelor's degree from the senior college.

3. The numbers of first semester freshmen in this table do not equal the numbers in Table I because of missing or incomplete data.

4. Using 1970 census data tapes provided by the City Planning Commission, the OPPR classified NYC ZIP areas according to the race-ethnicity and median family income of residents.